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APPLICATION NO.	. 1	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/735,226		12/12/2003	Benjamin N. Eldridge	P56D1-US	3901
27520	7590	07/23/2004		EXAMINER	
FORMFA LEGAL DI			ABRAMS, NEIL		
2140 RESE				ART UNIT	PAPER NUMBER
LIVERMORE, CA 94550				2839	
			DATE MAILED: 07/23/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	,				
	10/735,226	ELDRIDGE	ØK.				
Office Action Summary	Examiner	Art Unit					
	Neil Abrams	2839					
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the	correspondence a	ddress				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep. If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).		imely filed bys will be considered time in the mailing date of this of ED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on	<u>_</u> .						
2a) This action is FINAL . 2b) ☑ Thi	s action is non-final.						
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) <u>13-15,20,21,28-30,33-40 and 51-57</u> 7) ☐ Claim(s) is/are objected to.	Claim(s) 13-15,20,21,28-30,33-40 and 51-57 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 13-15,20,21,28-30,33-40 and 51-57 is/are rejected. Claim(s) is/are objected to.						
Application Papers							
9)☐ The specification is objected to by the Examin	er.						
)) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority documer application from the International Burea * See the attached detailed Office action for a list	nts have been received. Its have been received in Applica ority documents have been receive au (PCT Rule 17.2(a)).	tion No ved in this Nationa	ıl Stage				
Attachment(s)							
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 	4) Interview Summa Paper No(s)/Mail						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date			TO-152)				

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Art Unit: 2839

Claims 13-15, 20, 21, 28-30, 33-40, 51-57 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gore in view of admitted prior art (APA), Maeda, Myers Smith, Akram, Kanji, Takamatsu and Dalamangas.

For claim 3, Gore fig. 8 discloses a substrate 704 with sheet like stop member 702 having openings for contacts. Gore contacts are not resilient.

Myer at 50a, Smith at 4**Q** and APA at 314A use resilient contacts on a substrate. Obvious to use such contacts in Gore on substrate 704 to enable detachable engagement with substrate 714. Claim 14 met by such arrangement. For claim 15, 20, etc obvious to add adhesive layers in view of Takamatsu at 18, Dalamangas at 24 and Maeda at 12. This would help to secure the substrates in place. For claim 20, Gore second substrate 714 has no resilient contacts. Kanji, fig. 1B and Akram fig. 8B, components with resilient contacts. Obvious to use these on Gore substrate 714 for detachable engagement of 714 to 704. Claims 21, 28, 20, 30 all met by references so applied.

Claims 33 defines obvious manner of assembly with sheet 702 applied to 704 and then solder 730 or Smith type contacts 4a or APA contacts applied to 704. Also obvious that the stop would define connection position of contacts just as do Myer stops 58 and those of Takamotsu at 16, 17.

Claim 36 defines only an obvious use of the system. Claim 39 defines obvious change producing no new result, claim 39 contacts read on solder bumps 730. Other claims met by the combination.

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With regard to above rejections note that claims such as 33 do define steps but not any order of those steps and claim 30 calls for "contacts formed" but on what? The claim reads on contacts made and stored before the sheet is applied to the substrate and that added to the substrate as a final step. If such limitations are to be argued as basic for patentabability they must be clearly stated in claims.

Claims 13-15, 33-40, 51-57 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dery in view of Hopfer, Gabrielian, Dalamangas and Takamatsu.

Dery includes substrate 24, resilient contacts 16, and a layer 12 with openings for the contacts. It appears obvious that layer 10 as a stop for substrate 22. Such usage if at issue further suggested by fig. 2, Gabrielian fig. 3, Hopfer figs. 6, 7 and Takamatsu fig. 4, stops 16, 17. For claims 15, obvious to use adhesive in view of Takamatsu at 18 and Dalamangas at 24. Other claims met by references so applied. Note that placing contacts into sheet 12 openings meets forming step, claim 33 and could be done at any stage.

Claims 13-15, 20, 21, 28, 29, 33-40, 51-57 are rejected under 35 U.S.C. 103(a) as being unpatentable over Myer in view of Takamatsu and Southgate.

Meyer fig. 5 include a substrates 54, 52 with contacts 50, 50a and a stop 58. It would have been obvious to form 58 as a sheet with an opening in view of Southgate at 14, fig. 2. This would protect the contacts. Claim 13 which does not positively recite "plural openings" does not define over single opening for plural contacts. For claim 14, obvious to use adhesive in view of Tagamatsu and Southgate at 20.

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For claims 13, 20, either contact 50, 50a is read as the resilient contact and 58, could be read as a stop on either substrate.

Any inquiry concerning this communication should be directed to Neil Abrams at telephone number (571)272-2089.

Abrams/ds

07/13/04

N - Ole _______
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EXAMINER
ART LINET COO